

FIG. 1

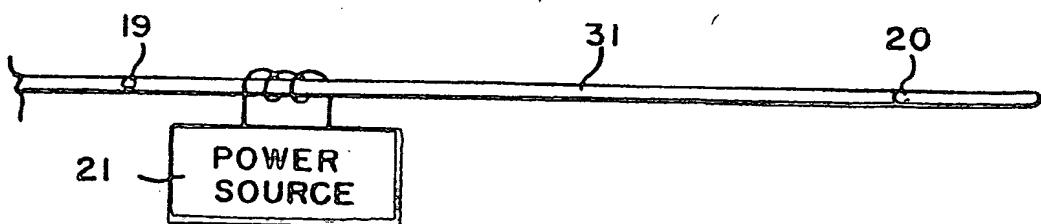
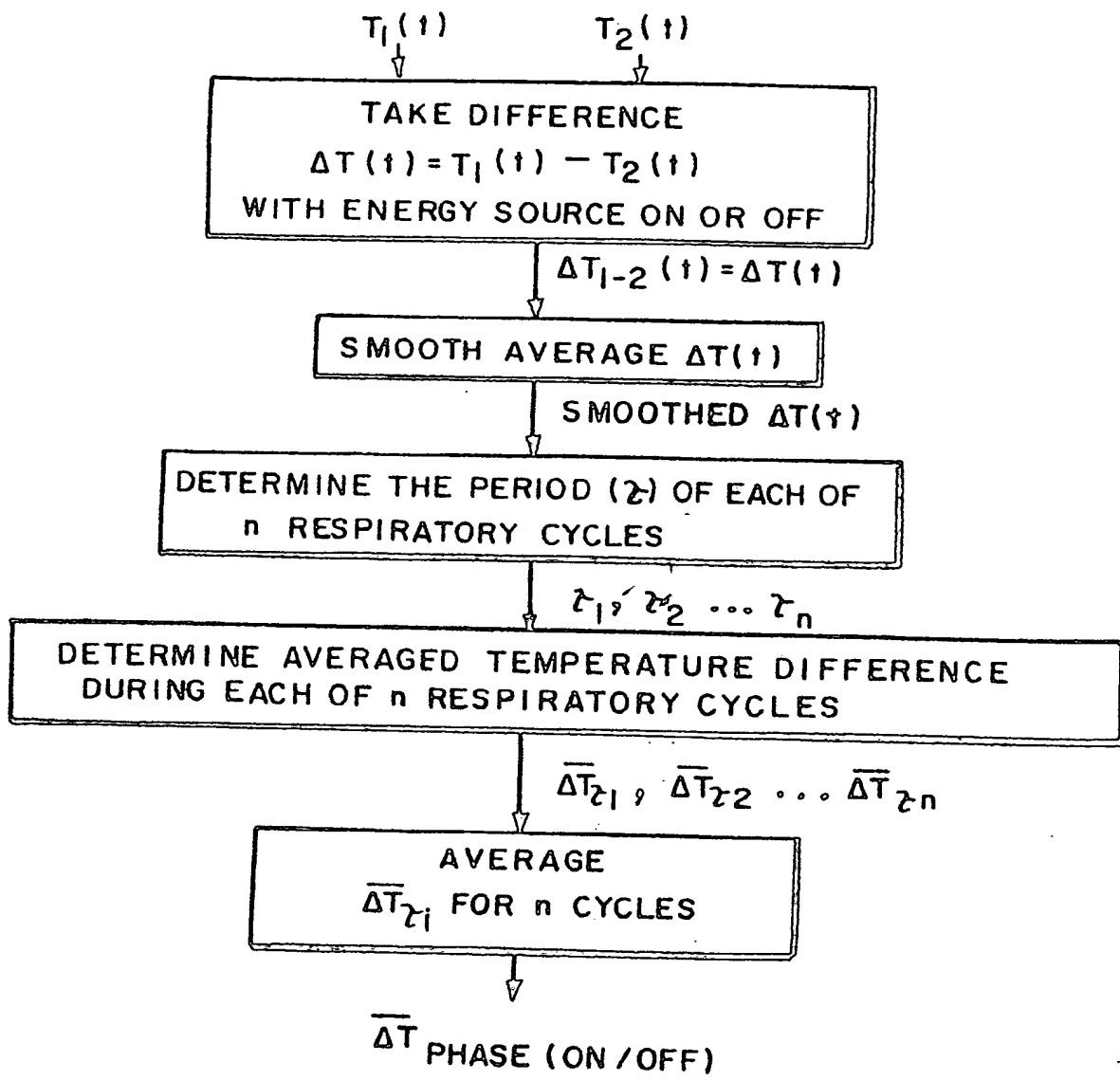


FIG. 2



PROCESS I

FIG. 3

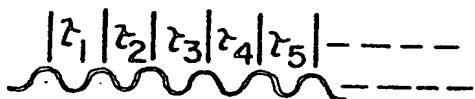
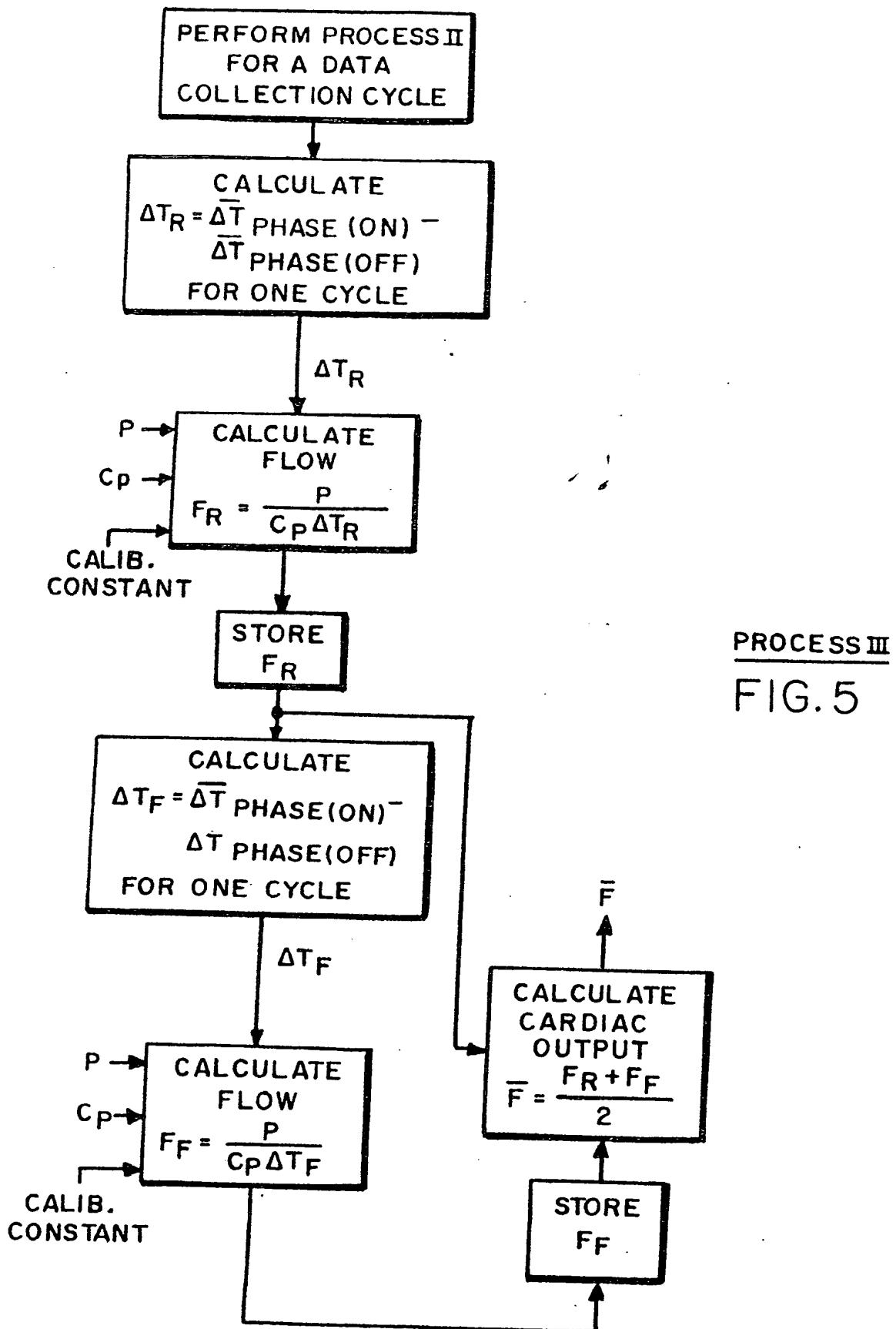
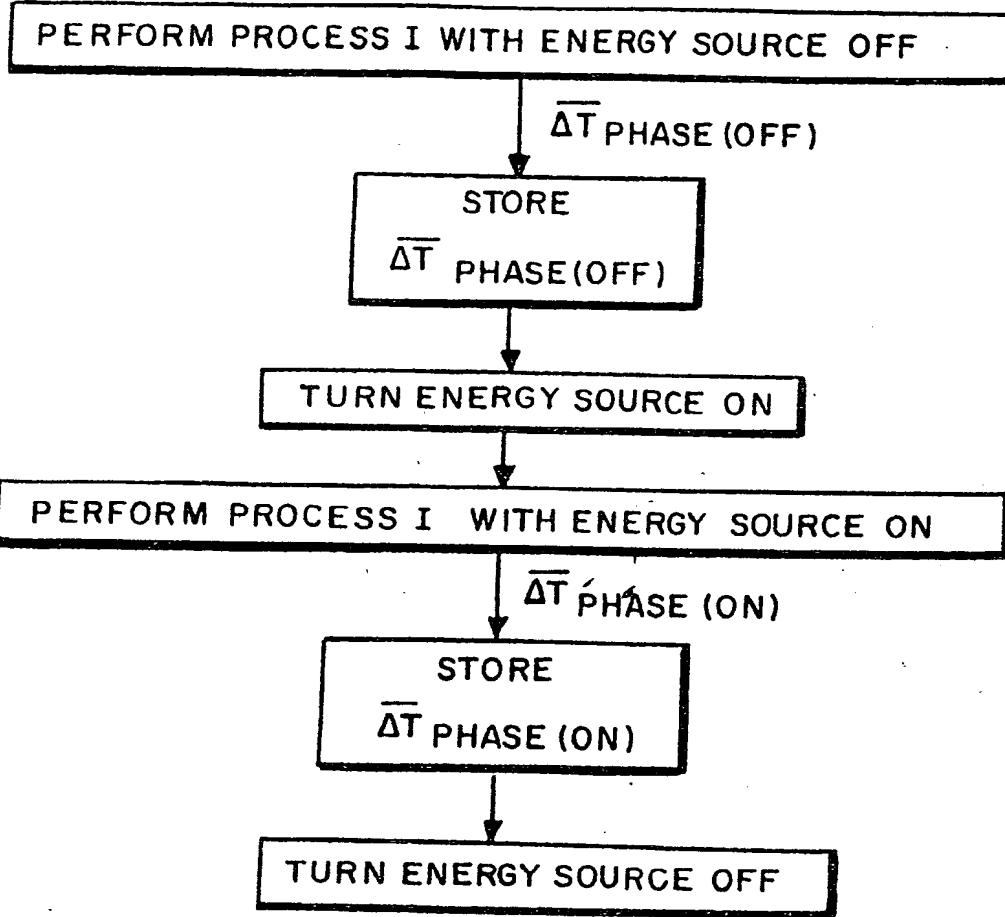


FIG. 3A





PROCESS II

FIG. 4

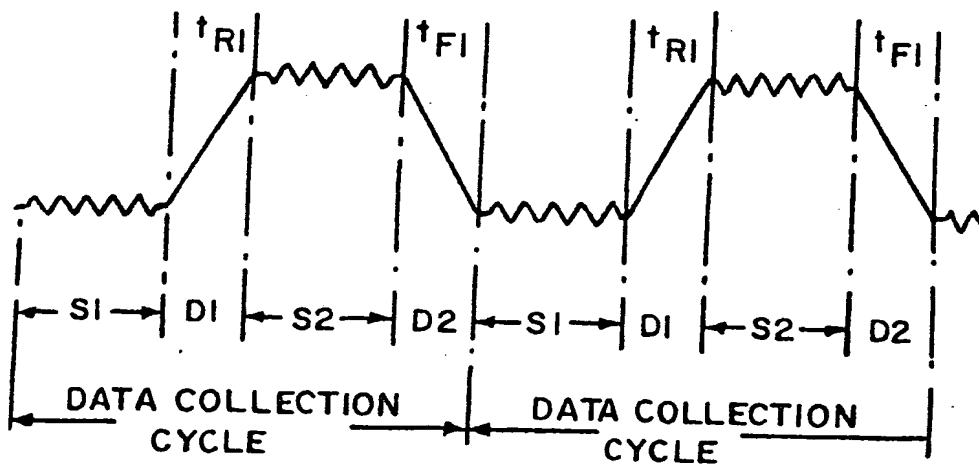


FIG. 6

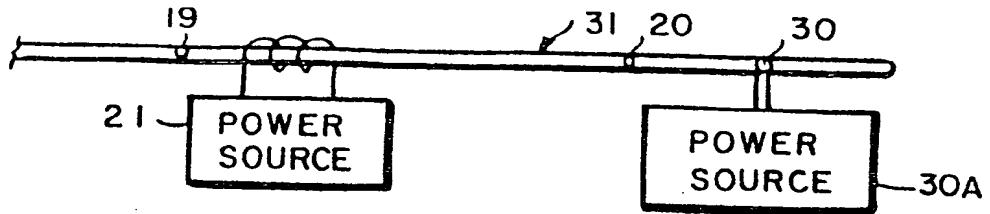
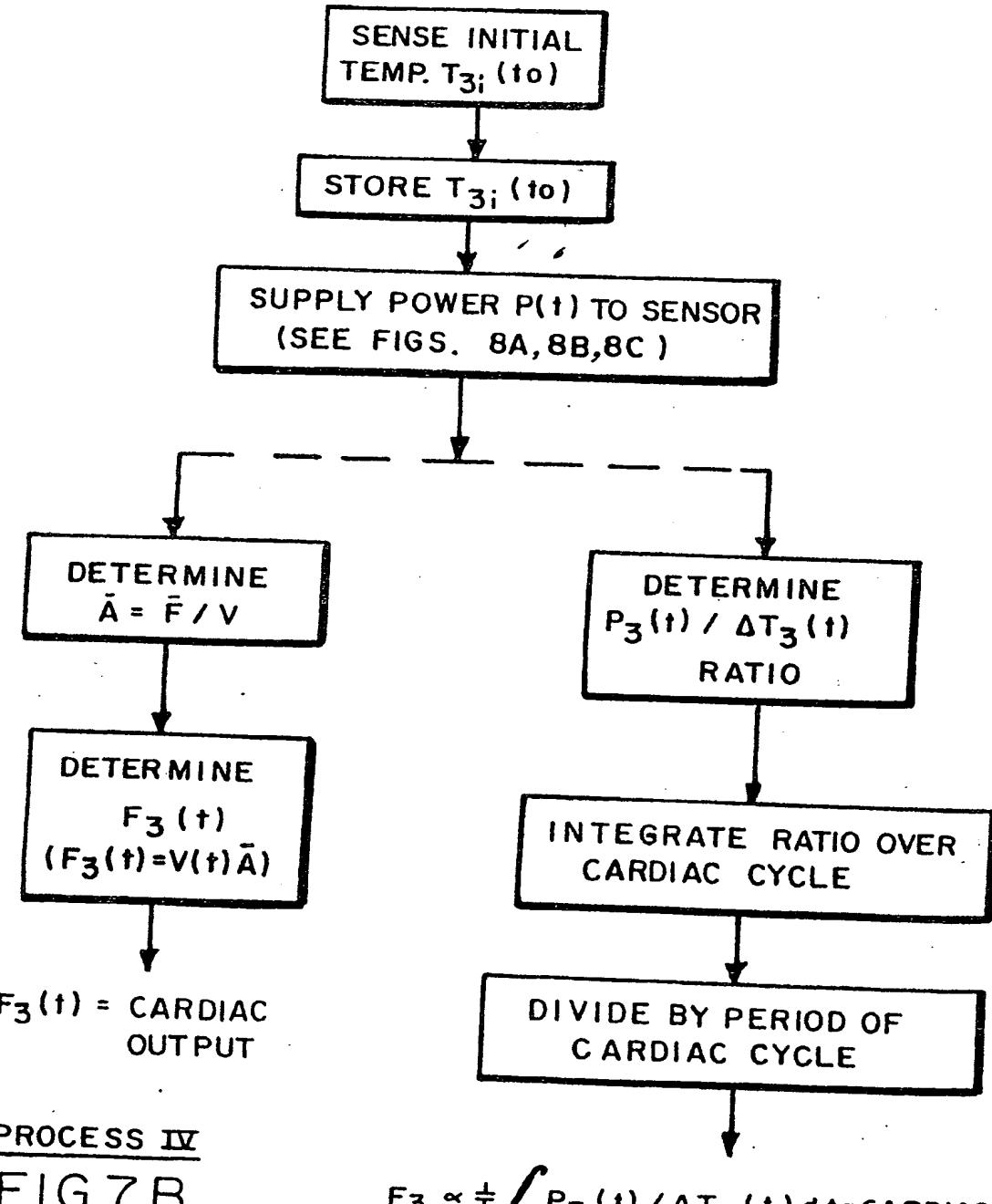


FIG. 7A



SUPPLY POWER
 $P(t)$ TO
SENSOR

SUPPLY POWER
 $P(t)$ TO
SENSOR

SUPPLY POWER
 $P(t)$ TO
SENSOR

CONTROL $P(t)$ TO
MAINTAIN
 T_{3f} CONSTANT

CONTROL $P(t)$ TO
MAINTAIN
 ΔT_3 CONSTANT

CONTROL $P(t)$ TO
MAINTAIN
 ΔR_3 CONSTANT

DETERMINE
 $\Delta T_3(t)$

DETERMINE
 $T_{3f}(t)$

DETERMINE
 $R_{3f}(t)$

$$\begin{aligned}\Delta T_3(t) &= T_{3f} - T_{3i}(t) \\ &= \Delta T_3 + T_{3i}(t_0) - T_{3i}(t)\end{aligned}$$

$$T_{3f}(t) = \Delta T_3 + T_{3i}(t)$$

$$R_{3f}(t) = \Delta R_3 + R_{3i}(t)$$

FIG.8A

FIG.8B

FIG.8C

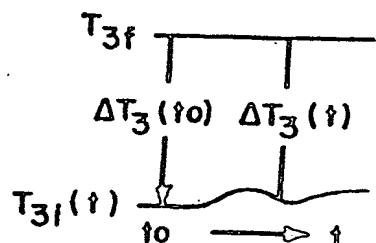


FIG.9A

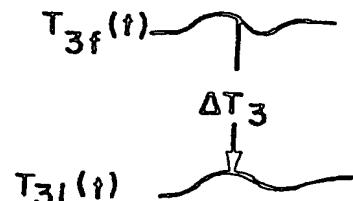


FIG.9B

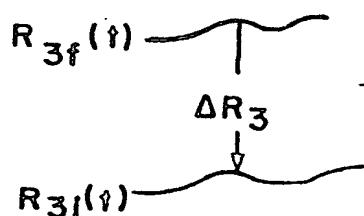


FIG.9C

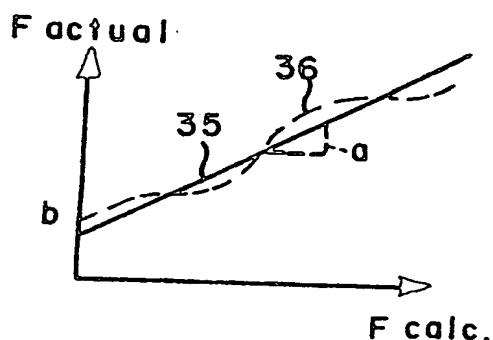


FIG.10

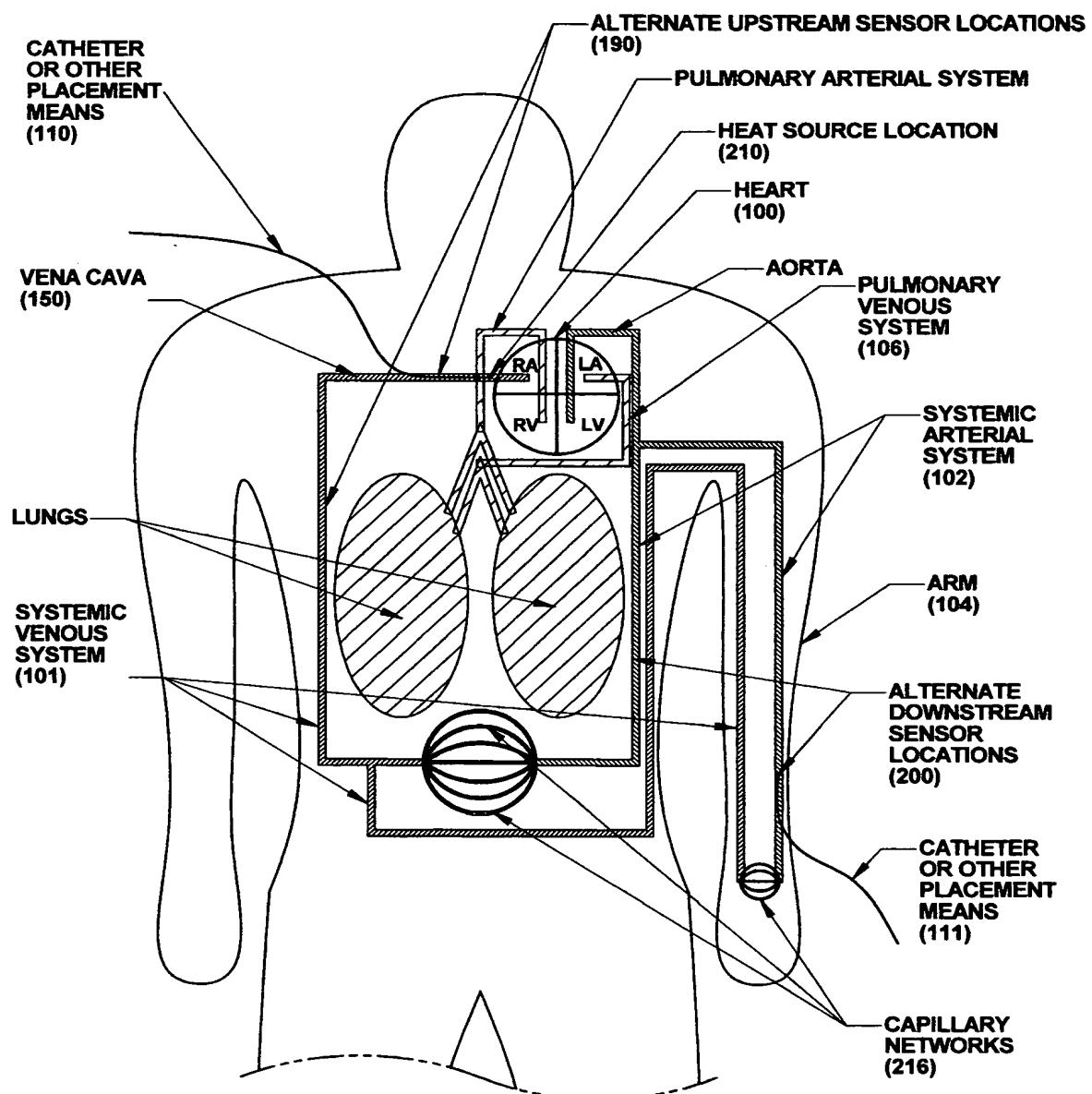


FIGURE 11